

BBBBBBBBBBBBBBB AAAAAAAA SSSSSSSSSSSS RRRRRRRRRRRRR TTTTTTTTTTTTTT LLL
BBBBBBBBBBBBBBB AAAAAAAA SSSSSSSSSSSS RRRRRRRRRRRRR TTTTTTTTTTTTTT LLL
BBBBBBBBBBBBBBB AAAAAAAA SSSSSSSSSSSS RRRRRRRRRRRRR TTTTTTTTTTTTTT LLL
BBB BBB AAA AAA SSS RRR RRR TTT LLL
BBB BBB AAA AAA SSS RRR RRR TTT LLL
BBB BBB AAA AAA SSS RRR RRR TTT LLL
BBB BBB AAA AAA SSS RRR RRR TTT LLL
BBB BBB AAA AAA SSS RRR RRR TTT LLL
BBB BBB AAA AAA SSS RRR RRR TTT LLL
BBB BBB AAA AAA SSS RRR RRR TTT LLL
BBBBBBBBBBBBBBB AAA AAA SSSSSSSSSS RRRRRRRRRRRRR TTT LLL
BBBBBBBBBBBBBBB AAA AAA SSSSSSSSSS RRRRRRRRRRRRR TTT LLL
BBBBBBBBBBBBBBB AAA AAA SSSSSSSSSS RRRRRRRRRRRRR TTT LLL
BBB BBB AAAAAAAAAAAAAA SSS RRR RRR TTT LLL
BBB BBB AAAAAAAAAAAAAA SSS RRR RRR TTT LLL
BBB BBB AAAAAAAAAAAAAA SSS RRR RRR TTT LLL
BBB BBB AAA AAA SSS RRR RRR TTT LLL
BBB BBB AAA AAA SSS RRR RRR TTT LLL
BBB BBB AAA AAA SSS RRR RRR TTT LLL
BBBBBBBBBBBBBBB AAA AAA SSSSSSSSSSSS RRR RRR TTT LLL
BBBBBBBBBBBBBBB AAA AAA SSSSSSSSSSSS RRR RRR TTT LLL
BBBBBBBBBBBBBBB AAA AAA SSSSSSSSSSSS RRR RRR TTT LLL

```

BBBBBBBBBB PBBBBBBBBP AAAAAAAA XX XX RRRRRRRR BBBBBBBBBB DDDDDDDDD EEEEEEEEEE FFFFFFFFFF
BBBBBBBBBB PBBBBBBBBP AAAAAAAA XX XX RRRRRRRR BBBBBBBBBB DDDDDDDDD EEEEEEEEEE FFFFFFFFFF
BB BB PP PP AA AA XX XX RR RR BB BB DD DD DD EE FF
BB BB PP PP AA AA XX XX RR RR BB BB DD DD DD EE FF
BB BB PP PP AA AA XX XX RR RR BB BB DD DD DD EE FF
BB BB PP PP AA AA XX XX RR RR BB BB DD DD DD EE FF
BBBBBBBBBB PBBBBBBBBP AA AA XX RRRRRRRR BBBBBBBBBB DD DD EEEEEEEE FFFFFFFF
BBBBBBBBBB PBBBBBBBBP AA AA XX RRRRRRRR BBBBBBBBBB DD DD EEEEEEEE FFFFFFFF
BB BB PP AAAAAAAAAA XX XX RR RR BB BB DD DD DD EE FF
BB BB PP AAAAAAAAAA XX XX RR RR BB BB DD DD DD EE FF
BB BB PP AA AA XX XX RR RR BB BB DD DD DD EE FF
BB BB PP AA AA XX XX RR RR BB BB DD DD DD EE FF
BBBBBBBBBB PP AA AA XX XX RR RR RR BBBBBBBBBB DDDDDDDDD EEEEEEEEEE FF
BBBBBBBBBB PP AA AA XX XX RR RR RR BBBBBBBBBB DDDDDDDDD EEEEEEEEEE FF

```

+ This file, BPAXRBDEF.REQ, defines the XRB.
-

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++ AUTHOR: Jeremy Barker, CREATION DATE: 06-Jan-79

MODIFIED BY:

VERSION X01

014 Jeremy Barker, 13-Mar-79
- Add fields used by .POSTN call
143 Jeremy Barker, 10-Apr-79
- Define xrb\$w_timeout as signed
200 Jim Ibbett, 26-Apr-79
- Add bitfields for flagword 2 for logical name support
219 Jeremy Barker, 24-May-79
- Define fields used by .SPEC call
227 Jim Ibbett, 5-Jun-79
- add bit definitions for ronly mode
270 Jim Ibbett, 28-Jun-79
- add bit definitions for flagword 2 bit 11
264 Jeremy Barker, 02-Jul-79
- define .POSTN return fields as WORD, not BYTE

Viveka Eriksson, 07-Sept-79
 317 - Define fields used by .PEEK call
 1-318 - Change name to BPAXRBDEF.REQ and remove defense against redundant
 requires of this file. JBS
 1-319 - Add copyright notice. SBL 11-Mar-1980

--

xrb definition

```

FIELD xrb$fields =
  SET
    xrb$w_buflen      = [ 0, W- ],          ! buffer length
    xrb$w_linesize    = [ 0, W- ],          ! line length + 1 for .POSTN
    xrb$w_spec_fun    = [ 0, W- ],          ! function code for .SPEC
    xrb$w_peek_arg    = [ 0, W- ],          ! Peek argument
    xrb$w_time_1      = [ 2, W- ],          ! System time part I for .PEEK
    xrb$w_bytcnt      = [ 2, W- ],          ! byte count
    xrb$w_carrposn    = [ 2, W- ],          ! carriage position for .POSTN
    xrb$w_mt_param    = [ 2, SQ- ],          ! magtape .SPEC parameter
    xrb$w_mt_value    = [ 2, W- ],          ! magtape .SPEC result value
    xrb$w_time_2      = [ 4, W- ],          ! System time part II for .PEEK
    xrb$w_bufaddr     = [ 4, W- ],          ! buffer address
    xrb$w_channel     = [ 6, B- ],          ! BASIC channel number * 2
    xrb$w_channel     = [ 6, V-(1,7) ],      ! BASIC channel number
    xrb$w_blkhi       = [ 7, B- ],          ! MSB of block number
    xrb$w_hndindx     = [ 7, B- ],          ! handler index for .SPEC
    xrb$w_blklo       = [ 8, W- ],          ! LSB of block number
    xrb$w_flag2       = [ 8, W- ],          ! Flagword 2 for .FSS
    xrb$w_name_seen   = [ 8, V-(0) ],      ! Flagword 2 bitfield definitions
    xrb$w_dot_seen    = [ 8, V-(3) ],      ...
    xrb$w_ext_seen    = [ 8, V-(4) ],      ...
    xrb$w_ppn_seen    = [ 8, V-(7) ],      ...
    xrb$w_prot_seen   = [ 8, V-(10) ],     ...
    xrb$w_def_prot    = [ 8, V-(11) ],     ...
    xrb$w_coln_seen   = [ 8, V-(12) ],     ...
    xrb$w_dev_seen    = [ 8, V-(13) ],     ...
    xrb$w_log_name    = [ 8, V-(14) ],     ...
    xrb$w_log_notr    = [ 8, V-(15) ],     ...
    xrb$w_timeout     = [ 10, SW- ],         ! terminal input timeout
    xrb$w_flag1       = [ 10, W- ],          ! Flagword 1 for .FSS
    xrb$w_cl_seen     = [ 10, V-(0) ],      ! Flagword 1 bitfield definitions
    xrb$w_moro_seen   = [ 10, V-(1) ],      ...
    xrb$w_fisi_seen   = [ 10, V-(2) ],      ...
    xrb$w_pos_seen    = [ 10, V-(3) ],      ...
    xrb$w_mo_ronly    = [ 10, V-(7) ],      ...
    xrb$w_name_1      = [ 10, V-(8) ],      ...
    xrb$w_dot_1       = [ 10, V-(9) ],      ...
    xrb$w_ppn_1       = [ 10, V-(10) ],     ...
    xrb$w_prot_1      = [ 10, V-(11) ],     ...
    xrb$w_coln_1      = [ 10, V-(12) ],     ...
    xrb$w_log_1       = [ 10, V-(13) ],     ...
    xrb$w_nfrep       = [ 10, V-(14) ],     ...
    xrb$w_opmod       = [ 12, W- ]          ! operation modifier
  
```

TES:

LITERAL

```
  xrb$sm_name_seen = M-(0),      ! Flagword 2 bitmask definitions
  xrb$sm_dot_seen = M-(3),
  xrb$sm_ext_seen = M-(4),
  xrb$sm_ppn_seen = M-(7),
  xrb$sm_prot_seen = M-(10),
  xrb$sm_def_prot = M-(11),
  xrb$sm_coln_seen = M-(12),
  xrb$sm_dev_seen = M-(13),
  xrb$sm_log_name = M-(14),
  xrb$sm_log_notr = M-(15),
  xrb$sm_cl_seen = M-(0),
  xrb$sm_moro_seen = M-(1),
  xrb$sm_fisi_seen = M-(2),
  xrb$sm_pos_seen = M-(3),
  xrb$sm_mo_ronly = M-(7),
  xrb$sm_name_1 = M-(8),
  xrb$sm_dot_1 = M-(9),
  xrb$sm_ppn_1 = M-(10),
  xrb$sm_prot_1 = M-(11),
  xrb$sm_coln_1 = M-(12),
  xrb$sm_log_1 = M-(13),
  xrb$sm_nfrep = M-(14),
  xrb$k_length = 14;           ! Length of xrb in bytes
```

! A270

! A 200
! A 200

! A227

! A 200
! A 200

MACRO

```
 $xrb_def = BLOCK[xrb$k_length, BYTE] FIELD(xrb$fields) % ;
! End of file BPAXRBDEF.REQ
```

0019 AH-BT13A-SE
VAX/VMS V4.0

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BASERMSG REQ	BASFRAME REQ	BASOPN REQ	BPAFSBDEF REQ	BPASTRUCT REQ
BPAADABDEF REQ	BPAERBDEF REQ	BPAERDEF REQ	BPAFUNDDEF REQ	BPAXRBDDEF REQ
BASINARG REQ	BASINARG REQ	BASINARG REQ	BASINARG REQ	BASBUFSIZ LIS
BASIOERR REQ	BASIOERR REQ	BASIOERR REQ	BASIOERR REQ	MATRIX MAR
BPAFQBDEF REQ	BPAFQBDEF REQ	BPAFQBDEF REQ	BPAFQBDEF REQ	BASCB LIS
BASRTL2 MAP	BASPAR SOL	BASLINK REQ	BPAMSGDEF REQ	BASCANTYP LIS
BASRTL MAP	BASRTL MAP	BASRTL MAP	BASRTL MAP	BASRTL MAP